

## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/768,996  
Source: FWO  
Date Processed by STIC: 10/25/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.2 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<http://www.uspto.gov/ebc/efs/downloads/documents.htm>) , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 06/05/04):  
U.S. Patent and Trademark Office, 220 20<sup>th</sup> Street S., Customer Window, Mail Stop Sequence, Crystal Plaza Two, Lobby, Room 1B03, Arlington, VA 22202

## Raw Sequence Listing Error Summary


### ERROR DETECTED

### SUGGESTED CORRECTION

SERIAL NUMBER:

10768,996

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1      Wrapped Nucleics  
    Wrapped Aminos     The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2      Invalid Line Length     The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3      Misaligned Amino  
    Numbering     The numbering under each 5<sup>th</sup> amino acid is misaligned. Do **not** use tab codes between numbers; use **space characters**, instead.
- 4      Non-ASCII     The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5      Variable Length     Sequence(s) 1-3 contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6      PatentIn 2.0  
    "bug"     A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s)           . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**
- 7      Skipped Sequences  
    (OLD RULES)     Sequence(s)            missing. If intentional, please insert the following lines for **each** skipped sequence:  
    (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    (i)            SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)  
    (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)  
    This sequence is intentionally skipped  
  
    Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.
- 8      Skipped Sequences  
    (NEW RULES)     Sequence(s)            missing. If intentional, please insert the following lines for **each** skipped sequence.  
    <210> sequence id number  
    <400> sequence id number  
    000
- 9      Use of n's or Xaa's  
    (NEW RULES)     Use of n's and/or Xaa's have been detected in the Sequence Listing.  
    Per 1.823 of Sequence Rules, use of <220>-<223> is **MANDATORY** if n's or Xaa's are present.  
    In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10      Invalid <213>  
    Response     Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence
- 11      Use of <220>  
         Sequence(s)            missing the <220> "Feature" and associated numeric identifiers and responses.  
    Use of <220> to <223> is **MANDATORY** if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.             
    (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12      PatentIn 2.0  
    "bug"     Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13      Misuse of n/Xaa     "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

## RAW SEQUENCE LISTING

DATE: 10/25/2004

PATENT APPLICATION: US/10/768,996

TIME: 14:42:06

Input Set : A:\Untitled.ST25.txt

Output Set: N:\CRF4\10252004\J768996.raw

3 <110> APPLICANT: Srivastava, Suresh C.  
 4 Sit, Kwok-Hung  
 5 Bajpai, Satya P.  
 7 <120> TITLE OF INVENTION: Novel Oligonucleotides and Related Compounds  
 9 <130> FILE REFERENCE: CHMG-10  
 11 <140> CURRENT APPLICATION NUMBER: 10/768,996  
 12 <141> CURRENT FILING DATE: 2004-01-30  
 14 <150> PRIOR APPLICATION NUMBER: 60/525691  
 15 <151> PRIOR FILING DATE: 2003-11-28  
 17 <160> NUMBER OF SEQ ID NOS: 10  
 19 <170> SOFTWARE: PatentIn version 3.3  
 21 <210> SEQ ID NO: 1  
 22 <211> LENGTH: 5  
 23 <212> TYPE: DNA  
 24 <213> ORGANISM: Homo sapiens  
 27 <220> FEATURE:  
 28 <221> NAME/KEY: misc\_feature  
 29 <222> LOCATION: (3)..(3)  
 30 <223> OTHER INFORMATION: n represents one or more nucleotides which can be the same or  
 31 different from each other.  
 33 <400> SEQUENCE: 1

W--&gt; 34 gcgc

5

37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 5  
 39 <212> TYPE: DNA  
 40 <213> ORGANISM: Homo sapiens  
 43 <220> FEATURE:  
 44 <221> NAME/KEY: misc\_feature  
 45 <222> LOCATION: (3)..(3)  
 46 <223> OTHER INFORMATION: n represents one or more nucleotides which can be the same or  
 47 different from each other.  
 50 <400> SEQUENCE: 2

W--&gt; 51 gcgc

5

54 <210> SEQ ID NO: 3  
 55 <211> LENGTH: 5  
 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Artificial  
 59 <220> FEATURE:  
 60 <223> OTHER INFORMATION: Artificial sequence  
 63 <220> FEATURE:  
 64 <221> NAME/KEY: misc\_feature  
 65 <222> LOCATION: (3)..(4) (3) "n is only at location 3"  
 66 <223> OTHER INFORMATION: n represents one or more nucleotides which can be the same

or

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67 different as each other.

69 <400> SEQUENCE: 3

W--> 70 **cgncgc** 5

73 <210> SEQ ID NO: 4

74 <211> LENGTH: 6

75 <212> TYPE: DNA

76 <213> ORGANISM: Artificial

78 <220> FEATURE:

79 <223> OTHER INFORMATION: Artificial sequence

82 <220> FEATURE:

83 <221> NAME/KEY: misc\_feature

84 <222> LOCATION: (3)..(4)

85 <223> OTHER INFORMATION: Each n represents any nucleotide, which can be the same or

86 different from other nucleotides that are labeled "n"

88 <400> SEQUENCE: 4

W--> 89 **gcnnngc** 6

92 <210> SEQ ID NO: 5

93 <211> LENGTH: 8

94 <212> TYPE: DNA

95 <213> ORGANISM: Artificial

97 <220> FEATURE:

98 <223> OTHER INFORMATION: Artificial sequence

101 <220> FEATURE:

102 <221> NAME/KEY: misc\_feature

103 <222> LOCATION: (3)..(8)(6)←

104 <223> OTHER INFORMATION: Each n represents any nucleotide, which can be the same or

105 different from other nucleotides that are labeled "n"

107 <400> SEQUENCE: 5

W--> 108 **gcnnnnngc** 8

111 <210> SEQ ID NO: 6

112 <211> LENGTH: 13

113 <212> TYPE: DNA

114 <213> ORGANISM: Artificial

116 <220> FEATURE:

117 <223> OTHER INFORMATION: Artificial sequence

120 <220> FEATURE:

121 <221> NAME/KEY: misc\_feature

122 <222> LOCATION: (3)..(11)

123 <223> OTHER INFORMATION: Each n represents any nucleotide, which can be the same or

124 different from other nucleotides that are labeled "n"

126 <400> SEQUENCE: 6

W--> 127 **gcnnnnnnnnn gc** 13

130 <210> SEQ ID NO: 7

131 <211> LENGTH: 6

132 <212> TYPE: DNA

133 <213> ORGANISM: Artificial

135 <220> FEATURE:

136 <223> OTHER INFORMATION: Artificial sequence

139 <220> FEATURE:

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Input Set : A:\Untitled.ST25.txt

Output Set: N:\CRF4\10252004\J768996.raw

140 <221> NAME/KEY: modified\_base  
141 <222> LOCATION: (1)..(1)  
142 <223> OTHER INFORMATION: n represents 2'-deoxy, 2',2'-difluorocytidine  
145 <400> SEQUENCE: 7

W--> 146 nggacg 6  
149 <210> SEQ ID NO: 8  
150 <211> LENGTH: 9  
151 <212> TYPE: DNA  
152 <213> ORGANISM: Artificial  
154 <220> FEATURE:  
155 <223> OTHER INFORMATION: Artificial sequence  
158 <220> FEATURE:  
159 <221> NAME/KEY: modified\_base  
160 <222> LOCATION: (1)..(1)  
161 <223> OTHER INFORMATION: n represents 2'-deoxy, 2',2'-difluorocytidine  
165 <400> SEQUENCE: 8

W--> 166 ngtggaacg 9  
169 <210> SEQ ID NO: 9  
170 <211> LENGTH: 13  
171 <212> TYPE: DNA  
172 <213> ORGANISM: Artificial  
174 <220> FEATURE:  
175 <223> OTHER INFORMATION: Artificial sequence  
178 <220> FEATURE:  
179 <221> NAME/KEY: modified\_base  
180 <222> LOCATION: (1)..(1)  
181 <223> OTHER INFORMATION: n represents 2'-deoxy, 2',2'-difluorocytidine  
184 <400> SEQUENCE: 9

W--> 185 nggacgtgga acg 13  
188 <210> SEQ ID NO: 10  
189 <211> LENGTH: 13  
190 <212> TYPE: DNA  
191 <213> ORGANISM: Artificial  
193 <220> FEATURE:  
194 <223> OTHER INFORMATION: Artificial sequence  
197 <220> FEATURE:  
198 <221> NAME/KEY: modified\_base  
199 <222> LOCATION: (1)..(1)  
200 <223> OTHER INFORMATION: n represents 2'-deoxy, 2',2' difluorocytidine  
204 <400> SEQUENCE: 10

W--> 205 nggagctgga acg 13

**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: US/10/768,996

DATE: 10/25/2004  
TIME: 14:42:07

Input Set : A:\Untitled.ST25.txt  
Output Set: N:\CRF4\10252004\J768996.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 3  
Seq#:2; N Pos. 3  
Seq#:3; N Pos. 3  
Seq#:4; N Pos. 3,4  
Seq#:5; N Pos. 3,4,5,6  
Seq#:6; N Pos. 3,4,5,6,7,8,9,10,11  
Seq#:7; N Pos. 1  
Seq#:8; N Pos. 1  
Seq#:9; N Pos. 1  
Seq#:10; N Pos. 1

**Invalid <213> Response:**

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10

**VERIFICATION SUMMARY**

DATE: 10/25/2004

PATENT APPLICATION: US/10/768,996

TIME: 14:42:07

Input Set : A:\Untitled.ST25.txt

Output Set: N:\CRF4\10252004\J768996.raw

L:34 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:89 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:127 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:185 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:205 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0